MNA/MNB/MNC/MND Series

Cables specification: EN2713-012

General purpose high-performance hook-up cables. Designed for aerospace and other applications requiring excellent thermal stability and light weight.

Cable characteristics

-55 +200°C

Excellent

FAR25_ ABD0031

Environmental

- Operating temperature: -55°C to 200°C (ambient temperature + current heating)
- Positively non-flammable
- High resistance to aircraft fluids
- Very low toxicity and smoke emission
- Jacket suitable for UV-Laser marking
- Arc Tracking resistant

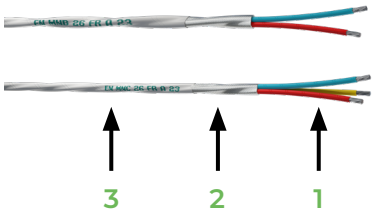
Electrical

Maximum operating voltage:

- 115V (phase to neutral) or 200V (phase to phase) AC Electrical systems of aircraft
- 230/400V AC in pressurized zones with specific installation rules to take account of possible short circuit effects.

Operating frequency: up to 2000Hz

Cable design



1. Cores: EN2267-009–DRA, not UV-markable (refer to EN2267-010 for dimensions)
2. Helicoidal Shield: Silver-plated Copper
3. Jacket: Polyimide Tape, Fluoropolymer Top Coat, UV-laser markable

Identification

- 1 Core: White, except Gauge 22: Light Green and Gauge 26: Light Yellow
- 2 Cores: Red and Blue
- 3 Cores: Red, Blue and Yellow
- 4 Cores: Red, Blue, Yellow and Green
- Jacket: Light blue for Gauges 24-20-16, white for the other Gauges

Marking (example)

EN MNx yy FR A zz

1 2 3 4 5

e.g. EN MNB 24 FRA 23

1. Short Designation
2. Gauge
3. Country of Origin
4. Manufacturer (A: Draka)
5. Manufacturing Year

Specifications

Cables Specifications

EN2713-012 MNA (1 core), MNB (pair), MNC (3 cores), MND (4 cores), cables family - Silver plated copper screened (spiral) and jacketed, UV laser printable -Product standard

Technical Specification

EN2235

Compliant to ABD0031

Flammability, Smoke and Toxicity requirements and 14 CFR FAR25-1713

Dimensional

For MNA

Short designation	EN reference	Number of cores	Nominal cross section mm²	AWG*	Linear resistance max. at 20°C		Screen strands nom. Ø		Outer diameter max.		Weight max.	
					Ω/km	*Ω/ 1000ft*	mm	*inch*	mm	*inch*	kg/ km	*Lbs/ 1000ft*
MNA26	EN2713-012A001F	1	0.15	26	160.0	*48.77*	0.08	*0.0031*	1.23	*0.0484*	4.45	*2.990*
MNA24	EN2713-012A002F	1	0.25	24	114.0	*34.75*	0.08	*0.0031*	1.35	*0.0531*	5.30	*3.562*
MNA22	EN2713-012A004F	1	0.40	22	60.0	*18.29*	0.08	*0.0031*	1.49	*0.0587*	7.16	*4.812*
MNA20	EN2713-012A006F	1	0.60	20	33.2	*10.12*	0.08	*0.0031*	1.73	*0.0681*	10.53	*7.076*
MNA18	EN2713-012A010F	1	1	18	21.1	*6.43*	0.08	*0.0031*	2.00	*0.0787*	14.90	*10.013*
MNA16	EN2713-012A012F	1	1.2	16	14.5	*4.42*	0.10	*0.0039*	2.35	*0.0925*	20.82	*13.991*
MNA14	EN2713-012A020F	1	2	14	10.9	*3.32*	0.10	*0.0039*	2.63	*0.1038*	26.54	*17.835*
MNA12	EN2713-012A030F	1	3	12	6.8	*2.07*	0.10	*0.0039*	3.13	*0.1232*	39.75	*26.712*
MNA10	EN2713-012A051F	1	5	10	4.1	*1.25*	0.10	*0.0039*	3.76	*0.1480*	60.05	*40.354*

For MNB

MNB26	EN2713-012B001F	2	0.15	26	165.00	*50.29*	0.08	*0.0031*	2.07	*0.0815*	7.96	*5.349*
MNB24	EN2713-012B002F	2	0.25	24	117.00	*35.66*	0.08	*0.0031*	2.31	*0.0909*	9.61	*6.458*
MNB22	EN2713-012B004F	2	0.40	22	61.70	*18.81*	0.08	*0.0031*	2.59	*0.1020*	13.28	*8.924*
MNB20	EN2713-012B006F	2	0.60	20	34.10	*10.39*	0.10	*0.0039*	3.14	*0.1236*	20.96	*14.085*
MNB18	EN2713-012B010F	2	1	18	21.70	*6.61*	0.10	*0.0039*	3.65	*0.1437*	29.71	*19.965*
MNB16	EN2713-012B012F	2	1.2	16	14.90	*4.54*	0.12	*0.0047*	4.31	*0.1697*	41.29	*27.747*
MNB14	EN2713-012B020F	2	2	14	11.20	*3.41*	0.12	*0.0047*	4.93	*0.1941*	53.08	*35.670*

For MNC

MNC26	EN2713-012C001F	3	0.15	26	165.00	*50.29*	0.08	*0.0031*	2.20	*0.0866*	10.75	*7.224*
MNC24	EN2713-012C002F	3	0.25	24	117.00	*35.66*	0.08	*0.0031*	2.45	*0.0965*	13.17	*8.850*
MNC22	EN2713-012C004F	3	0.40	22	61.70	*18.81*	0.08	*0.0031*	2.76	*0.1087*	18.36	*12.338*
MNC20	EN2713-012C006F	3	0.60	20	34.10	*10.39*	0.10	*0.0039*	3.35	*0.1319*	29.27	*19.669*
MNC18	EN2713-012C010F	3	1	18	21.70	*6.61*	0.10	*0.0039*	3.89	*0.1531*	42.02	*28.237*
MNC16	EN2713-012C012F	3	1.2	16	14.90	*4.54*	0.12	*0.0047*	4.60	*0.1811*	58.47	*39.292*
MNC14	EN2713-012C020F	3	2	14	11.20	*3.41*	0.12	*0.0047*	5.33	*0.2098*	78.63	*52.839*
MNC12	EN2713-012C030F	3	3	12	7.00	*2.13*	0.15	*0.0059*	6.34	*0.2496*	118.54	*79.659*

*Closest American Wire Gauge

For MND

Short designation	EN reference	Number of cores	Nominal cross section mm²	AWG*	Linear resistance max. at 20°C		Screen strands nom. Ø		Outer diameter max.		Weight max.	
					Ω/km	*Ω/ 1000ft*	mm	*inch*	mm	*inch*	kg/ km	*Lbs/ 1000ft*
MND26	EN2713-012D001F	4	0.15	26	165.00	*50.29*	0.08	*0.0031*	2.41	*0.0949*	13.54	*9.099*
MND24	EN2713-012D002F	4	0.25	24	117.00	*35.66*	0.08	*0.0031*	2.70	*0.1063*	16.67	*11.202*
MND22	EN2713-012D004F	4	0.40	22	61.70	*18.81*	0.10	*0.0039*	3.08	*0.1213*	24.55	*16.498*
MND20	EN2713-012D006F	4	0.60	20	34.10	*10.39*	0.10	*0.0039*	3.70	*0.1457*	37.59	*25.260*
MND18	EN2713-012D010F	4	1	18	21.70	*6.61*	0.12	*0.0047*	4.35	*0.1713*	55.87	*37.545*
MND16	EN2713-012D012F	4	1.2	16	14.90	*4.54*	0.12	*0.0047*	5.10	*0.2008*	75.54	*50.763*
MND14	EN2713-012D020F	4	2	14	11.20	*3.41*	0.12	*0.0047*	5.83	*0.2295*	101.75	*68.376*

*Closest American Wire Gauge

Bending radius

Permissible bend radius (recommendation following EN3197)	AWG
	26 to 10
Static use	6xØ
Dynamic use	12xØ

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